FIG. 1

HindIII, Sphl, Pstl

NcoI

Affill

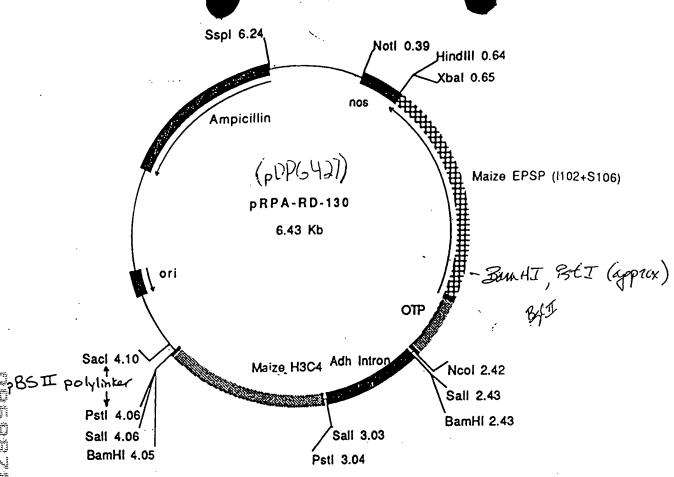


FIG. 2

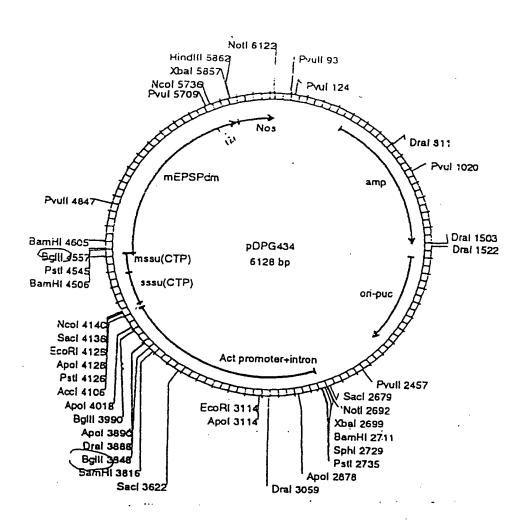
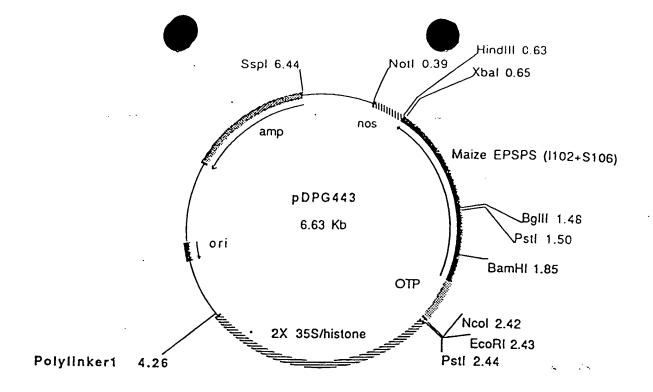


FIG. 3



Polylinker1: 4.26/Sacl.BstXI.Sacll.Xmalll.Notl.Xbal.Spel.BamHl.

mw(kb) 1 2 3

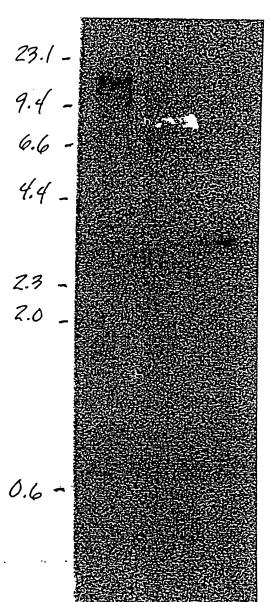


FIG. 5A

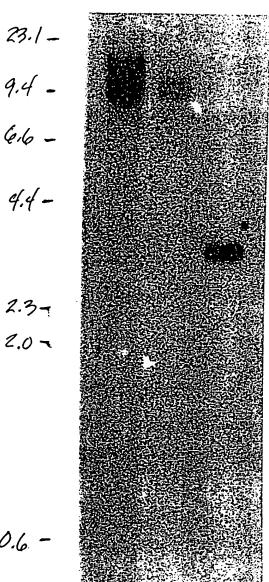


FIG. 5B

Cisses as a second

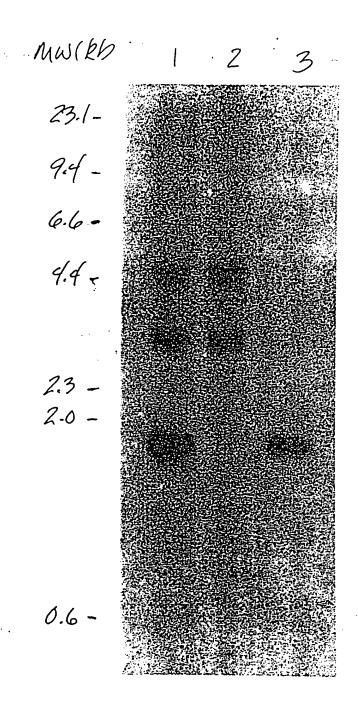


FIG. 6

 $M\omega(B)$ 23.1 -9.4 -4.4 -2.3 -2.0 -

FIG. 7

EXPERIMENT 963019 - GROWTH REDUCTION RR Unfinshied Hybrids (BC₄)

		MEA	MALE						
HYBRID	EVENT	0X	1X	Diff	RANK	4X	Diff	RANK	STERILE
DK580	GA21	104.1	102.4	1.7	1	102.3	1.8	1	None
	FI117	100.1	97.7	2.3	2	97.7	2.4	2	None
	GJ11	105.0	102.4	2.6	3	98.6	6.5	3	None
	GG25	105.5	99.4	6.2	4	97.3	8.3	4	None
DK626	GA21	98.8	97.1	1.8	3	97.9	1.0	1	None
	FI117	96.4	91.3	5.1	4	92.7	3.7	3	None
	GJ11	96.0	96.8	-0.8	1	94.0	2.0	2	None
	GG25	99.5	97.8	1.6	2	93.1	6.4	4	None

FIG. 8A

<u> </u>		MEA	MALE						
HYBRID	EVENT	0X	1X	Diff	RANK	4X	Diff	RANK	STERILE
DK580	GA21	142.7	139.6	3.1	3	139.2	3.5	2	None
	FI117	143.4	139.5	3.9	4	139.1	4.3	3	None
	GG25	141.4	139.8	1.6	2	136.5	5.0	4	YES
	GJ11	139.3	139.3	0.0	1	137.3	2.0	1	YES
DK626	GA21	134.8	139.2	-4.4	1	134.0	0.8	1	None
15.1020	FI117	135.4	134.2	1.3	4	132.1	3.3	4	None
	GJ11	135.7	137.7	-2.0	2	133.1	2.6	3	YES
	GG25	135.5	136.6	-1.0	3	134.0	1.6	2	YES

FIG. 8B

RR - 963019 DK580 bu/a CONTRASTS

	VEL1	LEV	EL2	DIFFERENCE	
HYBRID	RU*@TIMING	HYBRID	RU*@TIMING	(LEV. 1 - LEV. 2)	Prob>T
DK580	0X	DK580 FI117	0X	-16.60	0.0339
DK580	0X	DK580 FI117	4X@V4	11.33	0.1468
DK580 FI117	0X	DK580 FI117	4X@V4	27.97	0.0004
DK580	0X	DK580 GA21	0X	3.67	0.6378
DK580	0X	DK580 GA21	4X@V4	-5.35	0.4923
DK580 GA21	· 0X	DK580 GA21	4X@V4	-9.02	0.2478
DK580	0X	DK580 GG25	0X	-4.13	0.5957
DK580	0X	DK580 GG25	4X@V4	-3.50	0.6531
DK580 GG25	0X	DK580 GG25	4X@V4	0.63	0.9352
DK580	0X	DK580 GJ11	0X	-9.43	0.2267
DK580	0X	DK580 GJ11	4X@V4	-6.05	0.4376
DK580 GJ11	0X	DK580 GJ11	4X@V4	3.38	0.6640

^{*}Roundup Ultra 4X rate = 1.52 lb. ae/acre, i.e. 64 ounces/acre.

FIG. 9A

RR - 963019 DK620 Du/a CONTRASTS

LE	VEL1	LEV	EL2	DIFFERENCE	
HYBRID	RU*@TIMING	HYBRID	RU*@TIMING	(LEV. 1 - LEV. 2)	Prob>T
DK626	0X	DK626 FI117	0X	-11.10	0.1559
DK626	0X	DK626 FI117	4X@V8	5.12	0.5113
DK626 FI117	0X	DK626 FI117	4X@V8	16.20	0.0388
DK626	0X	DK626 GA21	0X	-2.58	0.7401
DK626	0X .	DK626 GA21	4X@V8	-9.63	0.2171
DK626 GA21	0X	DK626 GA21	4X@V8	-7.05	0.3658
DK626	0X	DK626 GG25	0X	-6.93	0.3738
DK626	0X	DK626 GG25	4X@V8	23.97	0.0024
DK626 GG25	· 0X	DK626 GG25	4X@V8	30.90	0.0001
DK626	0X	DK626 GJ11	0X	1.70	0.8272
DK626	0X	DK626 GJ11	4X@V8	27.62	0.0005
DK626 GJ11	0X	DK626 GJ11	4X@V8	25.92	0.0011

^{*}Roundup Ultra 4X rate = 1.52 lb. ae/acre, i.e. 64 ounces/acre.



Byll digest public nos 3'-end

- (2) FI117
- 6 GA21
- (b) 6625
- · (1) 67(1
 - 12 negative control (3) p DP6427

FIG. 10

Mw(kb) () (2) (3) (9)

23.1
9.4
6.6
4.4
2.3
2.0 -

EcoRV digeot

proble; 324 bp EPSPS fragment

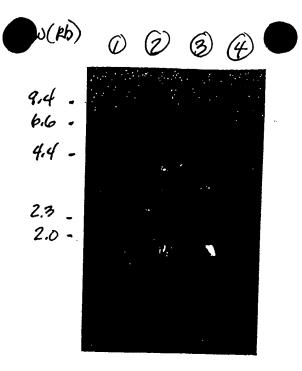
(i) negative control

(ii) 6421

(iii) 6625

(iii) 6471

FIG. 11A



SphI digest

puble: 324 bp EPSPS fragment

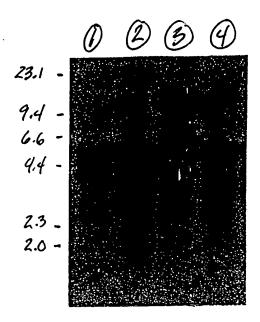
(1) negative control

(2) BAZI

(3) 6625

(4) 6711

FIG. 11B



SACI digest
passe: 324 bp EPSPS fragment

(i) negative control
(2) 6A21
(3) 6G25

@ GI11

FIG. 11C

- 1 MASISSSVAT VSRTAPAQAN MVAPFTGLKS NAAFPTTKKA NDFSTLPSNG
- 51 GGRVQCMQVW PAYGNKKFET LSYLPPLSMA PTVMMASSAT AVAPFQGLKS
- 101 TASLPVARRS SRSLGNVSNG GRIRCMAGAE EIVLQPIKEI SGTVKLPGSK
- 151 SLSNRILLIA ALSEGTTVVD NLLNSEDVHY MLGALRTLGL SVEADKAAKR
- 201 AVVVGCGGKF PVEDAKEEVQ LFLGNAGIAM RSLTAAVTAA GGNATYVLDG
- 251 VPRMRERPIG DLVVGLKQLG ADVDCFLGTD CPPVKVNGIG GLPGGKVKLS
- 301 GSISSQYLSA LLMAAPLALG DVEIEIIDKL ISIPYVEMTL RLMERFGVKA
- 351 EHSDSWDRFY IKGGQKYKSP KNAYVEGDAS SASYFLAGAA ITGGTVTVEG
- 401 CGTTSLQGDV KFAEVLEMMG AKVTWTETSV TVTGPPREPF GRKHLKAIDV
- 451 NMNKMPDVAM TLAVVALFAD GPTAIRDVAS WRVKETERMV AIRTELTKLG
- 501 ASVEEGPDYC IITPPEKLNV TAIDTYDDHR MAMAFSLAAC AEVPVTIRDP
- 551 GCTRKTFPDY FDVLSTFVKN

FIG. 12

osasazas lidezoo

																_											7				_		_			7
	COL12	DK626	GJ11	1-1A@V4	DK626	T-4X@V8	אַנאַאַע	07000	N-0X	DK626	F1117	T-1X@V4	DK626	G111	YO-I	DK626	GG25	T-4X@V4	DK626		N-OX	DK626	GA21	T-1X@V4	DK626		N-OX	DK626	FI117	T-0X	DK626	GG25	T-1X@V4	DK626	XO'N	111-00
	C0L11	DK626	G11	1-04 20/20	UK626	T-1X@V4	DK626	GG25	T-4X@V4	DK626		N-OX	DK626	***	N-OX	DK626	GG2 5	T-1X@V4	DK626	F1117	T-1X⊕V8	DK626	GA21	T-OX	DK626	GA21	T-1X@V8	DK626	FI117	T-1X@V8	DK626	GG25	T-1X@V8	DK626	GJ11 T-1X@V4	
	COL10	DK626	GJ11	1-40@v0	DK626	T-0X	DK626	GG25	T-1X@V8	DK626	F1117	T-4X@V4	DK626	GJ11	1-4A@V4	DK626	GG25	T-1X@V8	DK626	F1117	T-4X@V8	DK626	GA21	T-1X@V8	DK626	GA21	T-1X@V4	DK626		N-OX	DK626		XO-N	DK626	GJ11 T-4X@V8	
	6T02	DK626	>	707NU	07070	XO-N	DK626	GG25	T-OX	DK626	FI117	T-1X@V8	DK626	GJII	1-4A@V0	DK626	GG25	T-4X@V8	DK626	FI117	T-1X@V4	DK626	GA21	T-4X@V8	DK626	GA21	T-OX	DK626	FI117	T-4X@V4	DK626	GG25	T-0X	DK626	T-0X	
	STO2	DK626	GJ11	1-10@v0	DA 920	T-4X@V4	DK626	GG25	T-4X@V8	DK626	F1117	T-OX	DK626	GJ11	1-14@v#	DK626	GG25	T-0X	DK626	F1117	T-0X	DK626		XO-X	DK626	GA21	T-4X@V8	DK626	FI117	T-4X@V8	DK626	GG25	T-4X@V8	DK626	T-1X@V8	
mple	COL7	DK626	GJ11	1-4000 V4	DN020	T-1X@V8	DK626	GG25	T-1X@V4	DK626	FI117	T-4X@V8	DK626	GJ11	1-14@vo	DK626	,	XO-N	DK626	F1117	T-4X@V4	DK626	GA21	T-4X@V4	DK626	GA21	T-4X@V4	DK626	FI117	T-1X@V4	DK626	GG25	T-4X@V4	DK626	T-4X@V4)
Map Exa	COL6	DK580	GA21	1-0v	DK380 F1117	T-4X@V8	DK 580	GG25	T-4X@V4	DK626	GJ11	T-1X@V8	DK580	GJII	1-4A@vo	DK580	GA21	T-1X@V4	DK580	GG25	T-4X@V8	DK580	F1117	T-4X@V4	DK580	GA21	T-0X	DK580	F1117	T-4X@V8	DK580	G311	T-1X@V8	DK580	GG25 T-1X@V8	,
3019 Test Map Example	COLS	DK580	20	VO-N	DK580 FI117	T-4X@V4	DK 580	2000	XO-N	DK626	GJII	T-0X	DK580	GJ11	1-1A(@vo	DK580		XO-N	DK580	GG25	T-0X	DK580	F1117	T-1X@V8	DK580	GA21	T-1X@V4	DK580	FI117	T-0X	DK580	6311	T-1X@V4	DK580	1-1X@V4	X
963	C0L4	DK580	GA21	1-1A(@V4	DK580	T-0.7	חוקאת	555	T-1X@V4	DK580	GJ11	T-4X@V4	DK580	GJ11	1-4X@V4	DK580	GA21	T-OX	DK580	GG25	T-1X@V4	DK580	F1117	T-1X@V4	DK580	GA21	T-4X@V4	DK580	FI117	T-1X@V8	DK580		N-OX	DK580	GG25 T-4X@V8	
	COL3	DK580	GA21	1-1X@v8	DK580	X-OX	TV 600	GG35	T-0X	DK580	GJ11	T-1X@V4	DK580		N-OX	DK580	GA21	T-4X@V4	DK580	GG25	T-4X@V4	DK580	F1117	T-0X	DK580	GA21	T-1X@V8	DK580		XO-N	DK580	GJII	T-OX	DK580	GG25 T-4X@V4	1
	COL2	DK580	GA21	T-4X@V8	DK580	T.1V@V8	0.00VI-1	DKS80	T-4X@V8	DK 580	GJ11	T-4X@V8	DK580	GII	T-1X@V4	DK580	GA21	T-1X@V8	DK580		XO-X	DK580		XO-N	DK580	•-	XO-N	DK580	F1117	T-1X@V4	DK580	GJ11	T-4X@V4	DK580	GG25	٠-۱
	COL1	DK580	GA21	T-4X@V4	DK580	FIII7	1-10@v+	DK580	1-1X@V8	DK 580	200	XQ-N	DK580	GJII	T-0X	DK580	GA21	T-4X@V8	DK580	GG25	T-1X@V8	DK 580	F1117	T-4X@V8	DK580	GA21	T-4X@V8	DK580	FI117	T-4X@V4	DK580	GIII	T-4X@V8	DK580	>0	N-OA
	ROW	4	4	4		m (2	~ (7 6	<u> </u> -	. .		4	4	4	3		· m	2	2	2	-		-	4	4	4		. ~	. "	,		۱ ۲		<u>,, , , , , , , , , , , , , , , , , , ,</u>	-
	REP	_	. 6	<u>.</u>	٣	<u> </u>	γ _.	m e). () (۰ ۳	2	. ~	7	2	. ~	٠.٠	- 2	. ~			4 (_	•		· _	•		· 	· -	·		<u></u>	

DIC 12

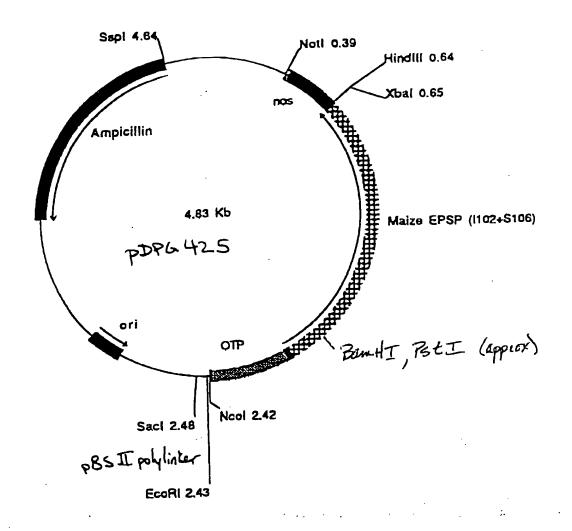


FIG. 14

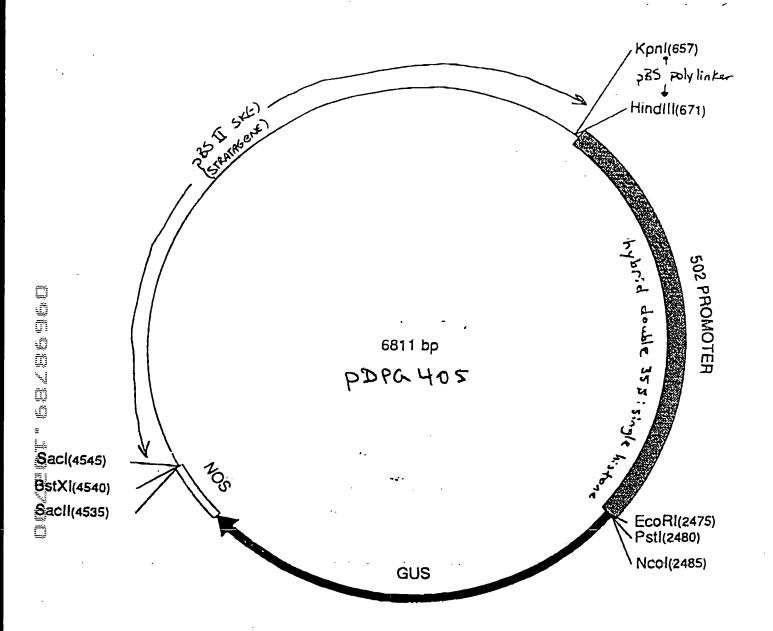


FIG. 15